Author index

Abdulrahim, M.M. 165
Aeiyach, S. 197
Alcalá, M.L. 73
Aloisi, G. 297

Bakos, I. 213, 309
Barret, S. 145
Batina, N. 87
Beden, B. 241
Bhattacharjee, B. 41
Blauch, D.N. 305
Bond, A.M. 1, 119
Brillas, E. 231
Bruckenstein, S. 189
Buckley, A.N. 295
Bulhões, L.O.S. 241

Carrasco, J. 231
Chaplin, M.F. 301
Cheprakov, A.V. 33
Christensen, P.A. 251
Compton, R.G. 129
Creager, S.E. 203

Dakkouri, A.S. 87
Deronzier, A. 151
Dobson, P.J. 129
Dong, S. 141
Dunsch, L. 17

Fensore, A. 189
Figueras, A. 231
Foresti, M.L. 281
Funtikov, A.M. 297

Gao, Z. 95
Georgolios, N. 219
Girault, H.H. 287
Gómez, E. 73

Hahn, F. 241
Hamelin, A. 281
Hamnett, A. 251
Han, Y. 269
Hara, S. 197
Heneghan, G. 119
Hérino, R. 145
Hillman, A.R. 189
Hirohashi, R. 59
Horányi, G. 67, 213, 309

Ikeda, K. 59
Innocenti, M. 281
Ioffe, N.T. 33

Jastrzebska, J. 165
Jaworski, J.S. 259
Jiang, Y. 269
Jurkiewicz-Herbich, M. 165

Kaneko, M. 59
Karyakin, A.A. 301
Kebede, Z. 259
Kobayashi, N. 59
Kolb, D.M. 87

Lacaze, P.-C. 197
Lamy, C. 241
Léger, J.-M. 241
Leigh, P.A. 129
Li, N.-H. 273
Li, Z. 189
Lin, C.B. 59
Lin, Y. 273
Lin, Z.G. 159

Mahon, P.J. 1
Mairanovsky, V.G. 33
Marques, M.-J. 151
Márquez, J. 171, 177
Márquez, O.P. 171, 177
Martínez, Y. 171, 177
Maxwell, E.A. 1
Mu, J.-Q. 273
Mu, S. 135
Munk, J. 251
Muszalska, A. 165

Neudeck, A. 17
Nomura, T. 103

Oldham, K.B. 1, 119
Olivi, P. 241
Ortíz, R. 171, 177
Osborne, M.D. 287
Otero, T.F. 171, 177, 231
Oyama, N. 103

Pekmez, K. 223
Pekmez, N. 223

Rangarajan, S.K. 41
Rasch, B. 109
Ritzoulis, G. 219
Rodríguez, J. 171, 177
Rodríguez Mellado, J.M. 183
Rolison, D.R. 305
Rowe, G.K. 203
Ruiz Montoya, M. 183

Santamaría, C. 171, 177
Serre, C. 145
Sun, S.-G. 273

Takada, K. 103
Tatsuma, T. 103
Troughton, G.L. 251
Tseung, A.C.C. 159
Tucker, D.J. 119

Vallés, E. 73
Vener, M.V. 33
Vielstich, W. 109
Villemure, G. 53

Wang, B. 141
Wellington, R.G. 129
Will, T. 297
Woods, R. 295

Xiang, Y. 53

Yamada, K. 59
Yang, Y. 159, 269
Yıldız, A. 223

Zhou, R. 269
Zoski, C.G. 1

Subject index

Acetonitrile
Electrochemical behavior of polyaniline films in acetonitrile (Pekmez et al.) 223
Electrochemical oxidation of 2,5-di-(-2-thienyl)-pyrrole in acetonitrile: cathodic stripping of the electrogenerated conducting polymer (Otero et al.) 231
Activation enthalpy
Activation enthalpy for ligand-bridged electroreduction of cobalt(III) complexes in mixtures of water with acetone (Jaworski, Kebede) 259
α-dicarbonyl compounds
Use of convolutive potential sweep voltammetry in the calculation of hydration equilibrium constants of α-dicarbonyl compounds (Ruiz Montoya, Rodríguez Mellado) 183
Adsorption
Nafion® adsorption|anion transfer at the interface between two immiscible electrolyte solutions (ITIES) (Osborne, Girault) 287
Chloride adsorption on Ag(111) studied by in-situ scanning tunnelling microscopy (Aloisi et al.) 297
Adsorption isotherm
Adsorption of 2-amino-5-nitropyridine on the (111) and (210) silver faces (Foresti et al.) 281
Aliphatic alcohols
Analysis of the differential capacity of the mercury|simple alcohol solution interface (Jurkiewicz-Herbich et al.) 165
2-Amino-5-nitropyridine
Adsorption of 2-amino-5-nitropyridine on the (111) and (210) silver faces (Foresti et al.) 281
Anion transfer
Nafion® adsorption|anion transfer at the interface between two immiscible electrolyte solutions (ITIES) (Osborne, Girault) 287
Anodic dissolution
β Backscattering: a radiochemical tool for the in-situ study of the electrochemical formation and dissolution of thin layers (Horányi) 67
anodic dissolution
Influence of the electrolyte composition and pH on the anodic dissolution of p-type Si in aqueous HF solutions (Serre et al.) 145
Aqueous zeolite dispersions
Application of ac impedance for in-situ real time measurement of changes in the bulk conductivity of aqueous zeolite dispersions during electrolysis (Blauch, Rolison) 305

β Backscattering
β Backscattering: a radiochemical tool for the in-situ study of the electrochemical formation and dissolution of thin layers (Horányi) 67
Bilayer films
Potentiostatic preparation of poly-1,3-dimethoxybenzene films. Kinetics and bilayer structure (Otero et al.) 171
Bioelectrochemical response
Bioelectrochemical response of the polyaniline galactose oxidase electrode (Mu) 135
Carbon fibre
Electrochemical preparation of microelectrodes modified with non-stoichiometric mixed-valent molybdenum oxides (Dong, Wang) 141
Catalytic decomposition
Homogeneous and heterogeneous catalytic decomposition of hydrogen peroxide by metalloporphyrin/carbon black in acid solution (Yang et al.) 159
Cathodic stripping
Electrochemical oxidation of 2,5-di-(-2-thienyl)-pyrrole in acetonitrile: cathodic stripping of the electrogenerated conducting polymer (Otero et al.) 231
Cation radical
Photoelectrochemical response of methyl viologen cation radical incorporated in coated polysiloxane film (Yamada et al.) 59
Channel microband electrodes
Hydrodynamic voltammetry with channel microband electrodes: resolution of ECE and DISP1 processes (Compton et al.) 129
Chemically modified electrode
Electrochemical preparation of microelectrodes modified with non-stoichiometric mixed-valent molybdenum oxides (Dong, Wang) 141
Chromium(III)-hexacyanoferrate
Electrochemical behavior of chromium(III)-hexacyanoferrate film modified electrodes: voltammetric and electrochemical impedance studies (Gao) 95
Clay modified electrodes
Influence of dissociation of tris(2,2′-bipyridyl)iron(II) cations on the time dependence of currents in clay-modified electrodes (Xiang, Villemure) 53
Cobalt(III) complexes
Activation enthalpy for ligand-bridged electroreduction of cobalt(III) complexes in mixtures of water with acetone (Jaworski, Kebede) 259
Competitive self-assembly
Competitive self-assembly and electrochemistry of some ferrocenyl-n-alkanethiol derivatives on gold (Creager, Rowe) 203
Conductivity measurement
Application of ac impedance for in-situ real time measurement of changes in the bulk conductivity of aqueous zeolite dispersions during electrolysis (Blauch, Rolison) 305
Convolutive potential sweep voltammetry
Use of convolutive potential sweep voltammetry in the calculation of hydration equilibrium constants of α-dicarbonyl compounds (Ruiz Montoya, Rodríguez Mellado) 183
Cyclic voltammetry theory
Cyclic voltammetry at microstructured electrodes (Neudeck, Dunsch) 17
Cyclic voltammograms
Transformation of cyclic voltammograms of polyparaphenylene (PPP) films prepared by adding strong acid to SO_2: correlation between redox behavior and microstructure of polymer chains (Hara et al.) 197

Differential capacity
Analysis of the differential capacity of the mercury|simple alcohol solution interface (Jurkiewicz-Herbich et al.) 165
Dimerization
Thin films of metal dibenzotetraaza [14] annulene complexes. Part 3. Dimerization and alternated dimerizations of γ-substituted Ni^{2+} complexes (Deronzier, Marques) 151
Discriminatory modes
Polarographic modes capable of discriminating between reversible and irreversible processes (Bond et al.) 119
DISP1 processes
Hydrodynamic voltammetry with channel microband electrodes: resolution of ECE and DISP1 processes (Compton et al.) 129
Dissociative adsorption
Kinetics of dissociative adsorption of formic acid on Pt(100), Pt(610), Pt(210) and Pt(110) single-crystal electrodes in perchloric acid solutions (Sun et al.) 273
Use of convolutive potential sweep voltammetry in the calculation of hydration equilibrium constants of α-dicarbonyl compounds (Ruiz Montoya, Rodríguez Mellado) 183
Dual quartz crystal mircobalance
Dual quartz crystal microbalance compensation using a submerged reference crystal. Effect of surface roughness and liquid properties (Bruckenstein et al.) 189

ECE processes
Hydrodynamic voltammetry with channel microband electrodes: resolution of ECE and DISP1 processes (Compton et al.) 129
Electrocatalysis
Kinetics of dissociative adsorption of formic acid on Pt(100), Pt(610), Pt(210) and Pt(110) single-crystal electrodes in perchloric acid solutions (Sun et al.) 273
Electrocatalytic activity
Voltammetric behaviour of NO_3^- ions at platinized platinum electrodes (electrocatalytic activity of electrodes with (100) preferred orientation) (Bakos, Horányi) 309
Electrochemical impedance
Electrochemical behavior of chromium(III)-hexacyanoferrate film modified electrodes: voltammetric and electrochemical impedance studies (Gao) 95
Electrochemical oxidation of methanol
An in situ FTIR study of the electrochemical oxidation of methanol at small platinum particles (Christensen et al.) 251
Electrochemical stability
Polythiophenes via thiophene, bithiophene and terthiophene in propylene carbonate: an electrochemical and in-situ FTIR study (Rasch, Vielstich) 109
Electrochromic display
Electrochemical preparation of microelectrodes modified with non-stoichiometric mixed-valent molybdenum oxides (Dong, Wang) 141
Electrodeposition
β Backscattering: a radiochemical tool for the in-situ study of the electrochemical formation and dissolution of thin layers (Horányi) 67
Electrodeposition of zinc+cobalt alloys. Relation between the electrochemical response and the composition and morphology of the deposits (Alcalá et al.) 73
Electrode-separated piezoelectric quartz crystals
Impedance and frequency characteristics of electrode-separated piezoelectric quartz crystals in liquids (Takada et al.) 103
Electrolysis
Application of ac impedance for in-situ real time measurement of changes in the bulk conductivity of aqueous zeolite dispersions during electrolysis (Blauch, Rolison) 305
Electrolyte effect
Influence of the electrolyte composition and pH on the anodic dissolution of p-type Si in aqueous HF solutions (Serre et al.) 145
Electrooxidation
Effect of underpotentially deposited Pb, Tl, Cd and Cu adatoms on the oxidation of formaldehyde at Pd (Ritzoulis, Georgolios) 219
Electro-oxidation
Electrochemical behavior of polyaniline films in acetonitrile (Pekmez et al.) 223
New results in the electro-oxidation of formaldehyde on a platinum electrode in an acid medium (Olivi et al.) 241
Electropolymerization
Polythiophenes via thiophene, bithiophene and terthiophene in propylene carbonate: an electrochemical and in-situ FTIR study (Rasch, Vielstich) 109
Potentiostatic preparation of poly-1,3-dimethoxybenzene films. Kinetics and bilayer structure (Otero et al.) 171
Electrogeneration of poly-1,3-dimethoxybenzene uniform coatings by consecutive square-wave potentials: kinetic studies (Ortíz et al.) 177
Electroreduction
Coupled radiometric and electrochemical study of the reduction of TcO_4^- ions at a gold electrode in acidic medium (mechanistic aspects of Tc deposition) (Horányi, Bakos) 213
Electrochemical behavior of polyaniline films in acetonitrile (Pekmez et al.) 223
Activation enthalpy for ligand-bridged electroreduction of cobalt(III) complexes in mixtures of water with acetone (Jaworski, Kebede) 259
Voltammetric behaviour of NO_3^- ions at platinized platinum electrodes (electrocatalytic activity of electrodes with (100) preferred orientation) (Bakos, Horányi) 309
Electrostatic effects
Competitive self-assembly and electrochemistry of some ferrocenyl-n-alkanethiol derivatives on gold (Creager, Rowe) 203
Enthalpy
Use of convolutive potential sweep voltammetry in the calculation of hydration equilibrium constants of α-dicarbonyl compounds (Ruiz Montoya, Rodríguez Mellado) 183
Entropy
Use of convolutive potential sweep voltammetry in the calculation of hydration equilibrium constants of α-dicarbonyl compounds (Ruiz Montoya, Rodríguez Mellado) 183
Enzyme electrodes
Bioelectrochemical response of the polyaniline galactose oxidase electrode (Mu) 135
Equivalent circuits
Impedance and frequency characteristics of electrode-separated piezoelectric quartz crystals in liquids (Takada et al.) 103
Etching
Influence of the electrolyte composition and pH on the anodic dissolution of p-type Si in aqueous HF solutions (Serre et al.) 145

Ferrocenyl-n-alkanethiol derivatives
Competitive self-assembly and electrochemistry of some ferrocenyl-n-alkanethiol derivatives on gold (Creager, Rowe) 203
Film deposition
Electrogeneration of poly-1,3-dimethoxybenzene uniform coatings by consecutive square-wave potentials: kinetic studies (Ortíz et al.) 177

Flame-annealed Au(100)
The surface structure of flame-annealed Au(100) in aqueous solution: an STM study (Batina et al.) 87
Formaldehyde
Effect of underpotentially deposited Pb, Tl, Cd and Cu adatoms on the oxidation of formaldehyde at Pd (Ritzoulis, Georgolios) 219
New results in the electro-oxidation of formaldehyde on a platinum electrode in an acid medium (Olivi et al.) 241
Formic acid
Kinetics of dissociative adsorption of formic acid on Pt(100), Pt(610), Pt(210) and Pt(110) single-crystal electrodes in perchloric acid solutions (Sun et al.) 273
Frequency characteristics
Impedance and frequency characteristics of electrode-separated piezoelectric quartz crystals in liquids (Takada et al.) 103
Frequency variation compensation
Dual quartz crystal microbalance compensation using a submerged reference crystal. Effect of surface roughness and liquid properties (Bruckenstein et al.) 189
FTIR Study
An in situ FTIR study of the electrochemical oxidation of methanol at small platinum particles (Christensen et al.) 251
Fuel cells
New results in the electro-oxidation of formaldehyde on a platinum electrode in an acid medium (Olivi et al.) 241
Fueld cells
Kinetics of dissociative adsorption of formic acid on Pt(100), Pt(610), Pt(210) and Pt(110) single-crystal electrodes in perchloric acid solutions (Sun et al.) 273

Galactose oxidase
Bioelectrochemical response of the polyaniline galactose oxidase electrode (Mu) 135
Gold
Hydrodynamic voltammetry with channel microband electrodes: resolution of ECE and DISP1 processes (Compton et al.) 129
Competitive self-assembly and electrochemistry of some ferrocenyl-n-alkanethiol derivatives on gold (Creager, Rowe) 203
Growth kinetics
Potentiostatic preparation of poly-1,3-dimethoxybenzene films. Kinetics and bilayer structure (Otero et al.) 171
Electrogeneration of poly-1,3-dimethoxybenzene uniform coatings by consecutive square-wave potentials: kinetic studies (Ortíz et al.) 177

aqueous HF
Influence of the electrolyte composition and pH on the anodic dissolution of p-type Si in aqueous HF solutions (Serre et al.) 145
Hydration equilibrium constants
Use of convolutive potential sweep voltammetry in the calculation of hydration equilibrium constants of α-dicarbonyl compounds (Ruiz Montoya, Rodríguez Mellado) 183
Hydrodynamic voltammetry
Hydrodynamic voltammetry with channel microband electrodes: resolution of ECE and DISP1 processes (Compton et al.) 129
Hydrogen peroxide
Homogeneous and heterogeneous catalytic decomposition of hydrogen peroxide by metalloporphyrin/carbon black in acid solution (Yang et al.) 159

ac Impedance
Application of ac impedance for in-situ real time measurement of changes in the bulk conductivity of aqueous zeolite dispersions during electrolysis (Blauch, Rolison) 305
Impedance characteristics
Impedance and frequency characteristics of electrode-separated piezoelectric quartz crystals in liquids (Takada et al.) 103
INDO calculations
Theoretical study of homogeneous electron self-exchange in polar aromatic molecules: the role of the reactant structure (Vener et al.) 33
In-situ measurement
β Backscattering: a radiochemical tool for the in-situ study of the electrochemical formation and dissolution of thin layers (Horányi) 67
Ion effects
Analysis of the differential capacity of the mercury|simple alcohol solution interface (Jurkiewicz-Herbich et al.) 165
ITIES
Nafion® adsorption|anion transfer at the interface between two immiscible electrolyte solutions (ITIES) (Osborne, Girault) 287

Ligand bridging
Activation enthalpy for ligand-bridged electroreduction of cobalt(III) complexes in mixtures of water with acetone (Jaworski, Kebede) 259
LIGA structures
Cyclic voltammetry at microstructured electrodes (Neudeck, Dunsch) 17
Liquid density
Dual quartz crystal microbalance compensation using a submerged reference crystal. Effect of surface roughness and liquid properties (Bruckenstein et al.) 189

Marcus theory
A statistical study of the potential dependence of a transfer coefficient supports the Marcus theory (Bond et al.) 1
Mean field formalism
Multicomponent multilayer random irreversible deposition model. Part 1. A mean field study (Bhattacharjee, Rangarajan) 41
Mercury
Analysis of the differential capacity of the mercury|simple alcohol solution interface (Jurkiewicz-Herbich et al.) 165
Thin films of metal dibenzotetraaza [14] annulene complexes. Part 3. Dimerization and alternated dimerizations of γ-substituted Ni^{2+} complexes (Deronzier, Marques) 151
Metal adatoms
Effect of underpotentially deposited Pb, Tl, Cd and Cu adatoms on the oxidation of formaldehyde at Pd (Ritzoulis, Georgolios) 219
Metalloporphyrin/carbon black
Homogeneous and heterogeneous catalytic decomposition of hydrogen peroxide by metalloporphyrin/carbon black in acid solution (Yang et al.) 159
Metal–solution interface
Analysis of the differential capacity of the mercury|simple alcohol solution interface (Jurkiewicz-Herbich et al.) 165
Methyl viologen
Photoelectrochemical response of methyl viologen cation radical incorporated in coated polysiloxane film (Yamada et al.) 59
Microelectrode
Electrochemical preparation of microelectrodes modified with non-stoichiometric mixed-valent molybdenum oxides (Dong, Wang) 141
Microstructured electrodes
Cyclic voltammetry at microstructured electrodes (Neudeck, Dunsch) 17

Mixed-valent molybdenum oxide
Electrochemical preparation of microelectrodes modified with non-stoichiometric mixed-valent molybdenum oxides (Dong, Wang) 141
Modified graphite electrodes
Electrochemical behavior of chromium(III)-hexacyanoferrate film modified electrodes: voltammetric and electrochemical impedance studies (Gao) 95
Morphology
Electrodeposition of zinc + cobalt alloys. Relation between the electrochemical response and the composition and morphology of the deposits (Alcalá et al.) 73
Multilayer
Multicomponent multilayer random irreversible deposition model. Part 1. A mean field study (Bhattacharjee, Rangarajan) 41

Nafion®
Nafion® adsorption|anion transfer at the interface between two immiscible electrolyte solutions (ITIES) (Osborne, Girault) 287
γ-substituted Ni^{2+} complexes
Thin films of metal dibenzotetraaza [14] annulene complexes. Part 3. Dimerization and alternated dimerizations of γ-substituted Ni^{2+} complexes (Deronzier, Marques) 151
NO_3^- ions
Voltammetric behaviour of NO_3^- ions at platinized platinum electrodes (electrocatalytic activity of electrodes with (100) preferred orientation) (Bakos, Horányi) 309
Nuclear frequency factors
Activation enthalpy for ligand-bridged electroreduction of cobalt(III) complexes in mixtures of water with acetone (Jaworski, Kebede) 259

Pd electrode
Effect of underpotentially deposited Pb, Tl, Cd and Cu adatoms on the oxidation of formaldehyde at Pd (Ritzoulis, Georgolios) 219
Perchloric acid
New results in the electro-oxidation of formaldehyde on a platinum electrode in an acid medium (Olivi et al.) 241
Pertechnate
Coupled radiometric and electrochemical study of the reduction of TcO_4^- ions at a gold electrode in acidic medium (mechanistic aspects of Tc deposition) (Horányi, Bakos) 213
Phase composition
Electrodeposition of zinc + cobalt alloys. Relation between the electrochemical response and the composition and morphology of the deposits (Alcalá et al.) 73
pH effect
Influence of the electrolyte composition and pH on the anodic dissolution of p-type Si in aqueous HF solutions (Serre et al.) 145
Photoelectrochemistry
Electrochemical study of chlorophyll *a* adsorbed on SnO_2 (Yang et al.) 269
Platinum electrode
New results in the electro-oxidation of formaldehyde on a platinum electrode in an acid medium (Olivi et al.) 241
Platinum particles
An in situ FTIR study of the electrochemical oxidation of methanol at small platinum particles (Christensen et al.) 251
Polarography
Polarographic modes capable of discriminating between reversible and irreversible processes (Bond et al.) 119
Polyaniline
Bioelectrochemical response of the polyaniline galactose oxidase electrode (Mu) 135
Polyaniline films
Electrochemical behavior of polyaniline films in acetonitrile (Pekmez et al.) 223
Poly-1,3-dimethoxybenzene
Potentiostatic preparation of poly-1,3-dimethoxybenzene films. Kinetics and bilayer structure (Otero et al.) 171
Electrogeneration of poly-1,3-dimethoxybenzene uniform coatings by consecutive square-wave potentials: kinetic studies (Ortíz et al.) 177
Polymer membranes
Nafion® adsorption|anion transfer at the interface between two immiscible electrolyte solutions (ITIES) (Osborne, Girault) 287
Polymer structure
Polythiophenes via thiophene, bithiophene and terthiophene in propylene carbonate: an electrochemical and in-situ FTIR study (Rasch, Vielstich) 109
Polymer structure effects
Transformation of cyclic voltammograms of polyparaphenylene (PPP) films prepared by adding strong acid to SO_2: correlation between redox behavior and microstructure of polymer chains (Hara et al.) 197
Polyparaphenylene (PPP) films
Transformation of cyclic voltammograms of polyparaphenylene (PPP) films prepared by adding strong acid to SO_2: correlation between redox behavior and microstructure of polymer chains (Hara et al.) 197
Polypyrrole
Polypyrrole–Prussian Blue films with controlled level of doping: codeposition of polypyrrole and Prussian Blue (Karyakin, Chaplin) 301
Polysiloxane film
Photoelectrochemical response of methyl viologen cation radical incorporated in coated polysiloxane film (Yamada et al.) 59
Polythiophenes
Polythiophenes via thiophene, bithiophene and terthiophene in propylene carbonate: an electrochemical and in-situ FTIR study (Rasch, Vielstich) 109
Potential dependence
A statistical study of the potential dependence of a transfer coefficient supports the Marcus theory (Bond et al.) 1
preferred orientation
Voltammetric behaviour of NO_3^- ions at platinized platinum electrodes (electrocatalytic activity of electrodes with (100) preferred orientation) (Bakos, Horányi) 309
Prussian Blue
Polypyrrole–Prussian Blue films with controlled level of doping: codeposition of polypyrrole and Prussian Blue (Karyakin, Chaplin) 301
Pt(100) electrodes
Voltammetric behaviour of NO_3^- ions at platinized platinum electrodes (electrocatalytic activity of electrodes with (100) preferred orientation) (Bakos, Horányi) 309
Pt single-crystal electrodes
Kinetics of dissociative adsorption of formic acid on Pt(100), Pt(610), Pt(210) and Pt(110) single-crystal electrodes in perchloric acid solutions (Sun et al.) 273

Quantitative analysis
Cyclic voltammetry at microstructured electrodes (Neudeck, Dunsch) 17

Radiometric method
Coupled radiometric and electrochemical study of the reduction of TcO_4^- ions at a gold electrode in acidic medium (mechanistic aspects of Tc deposition) (Horányi, Bakos) 213

Raman spectroscopy
On the characterization of sulfur species on sulfide mineral surfaces by X-ray photoelectron spectroscopy and Raman spectroscopy (Buckley, Woods) 295
Random irreversible deposition
Multicomponent multilayer random irreversible deposition model. Part 1. A mean field study (Bhattacharjee, Rangarajan) 41
Reaction kinetics
Homogeneous and heterogeneous catalytic decomposition of hydrogen peroxide by metalloporphyrin/carbon black in acid solution (Yang et al.) 159
Redox behavior
Transformation of cyclic voltammograms of polyparaphenylene (PPP) films prepared by adding strong acid to SO_2: correlation between redox behavior and microstructure of polymer chains (Hara et al.) 197
Redox potentials
Competitive self-assembly and electrochemistry of some ferrocenyl-n-alkanethiol derivatives on gold (Creager, Rowe) 203
Reduction mechanisms
Hydrodynamic voltammetry with channel microband electrodes: resolution of ECE and DISP1 processes (Compton et al.) 129
Reversible processes
Polarographic modes capable of discriminating between reversible and irreversible processes (Bond et al.) 119

Scanning tunnelling microscopy
The surface structure of flame-annealed Au(100) in aqueous solution: an STM study (Batina et al.) 87
Chloride adsorption on Ag(111) studied by in-situ scanning tunnelling microscopy (Aloisi et al.) 297
Semi-empirical methods
Theoretical study of homogeneous electron self-exchange in polar aromatic molecules: the role of the reactant structure (Vener et al.) 33
p-type Si
Influence of the electrolyte composition and pH on the anodic dissolution of p-type Si in aqueous HF solutions (Serre et al.) 145
Silver faces
Adsorption of 2-amino-5-nitropyridine on the (111) and (210) silver faces (Foresti et al.) 281
Single-crystal electrodes
The surface structure of flame-annealed Au(100) in aqueous solution: an STM study (Batina et al.) 87
SnO_2 electrode
Electrochemical study of chlorophyll *a* adsorbed on SnO_2 (Yang et al.) 269
Solvent reorganization energy
Theoretical study of homogeneous electron self-exchange in polar aromatic molecules: the role of the reactant structure (Vener et al.) 33
Statistical study
A statistical study of the potential dependence of a transfer coefficient supports the Marcus theory (Bond et al.) 1
Structure effects
Theoretical study of homogeneous electron self-exchange in polar aromatic molecules: the role of the reactant structure (Vener et al.) 33
Electrochemical behavior of polyaniline films in acetonitrile (Pekmez et al.) 223
Sulfide mineral surfaces
On the characterization of sulfur species on sulfide mineral surfaces by X-ray photoelectron spectroscopy and Raman spectroscopy (Buckley, Woods) 295
Sulfur species
On the characterization of sulfur species on sulfide mineral surfaces by X-ray photoelectron spectroscopy and Raman spectroscopy (Buckley, Woods) 295
Surface characterization
On the characterization of sulfur species on sulfide mineral surfaces by X-ray photoelectron spectroscopy and Raman spectroscopy (Buckley, Woods) 295
Surface roughness
Dual quartz crystal microbalance compensation using a submerged reference crystal. Effect of surface roughness and liquid properties (Bruckenstein et al.) 189
Surface structure
The surface structure of flame-annealed Au(100) in aqueous solution: an STM study (Batina et al.) 87

Technetium
Coupled radiometric and electrochemical study of the reduction of TcO_4^- ions at a gold electrode in acidic medium (mechanistic aspects of Tc deposition) (Horányi, Bakos) 213
Thin films
Electrochemical behavior of chromium(III)-hexacyanoferrate film modified electrodes: voltammetric and electrochemical impedance studies (Gao) 95
Thin films of metal dibenzotetraaza [14] annulene complexes. Part 3. Dimerization and alternated dimerizations of γ-substituted Ni^{2+} complexes (Deronzier, Marques) 151
Thin layers
β Backscattering: a radiochemical tool for the in-situ study of the electrochemical formation and dissolution of thin layers (Horányi) 67
Transfer coefficient
A statistical study of the potential dependence of a transfer coefficient supports the Marcus theory (Bond et al.) 1
Trapped liquid model
Dual quartz crystal microbalance compensation using a submerged reference crystal. Effect of surface roughness and liquid properties (Bruckenstein et al.) 189
Tris(2,2′-bipyridyl)iron(II) cations
Influence of dissociation of tris(2,2′-bipyridyl)iron(II) cations on the time dependence of currents in clay-modified electrodes (Xiang, Villemure) 53

Underpotential deposition
Effect of underpotentially deposited Pb, Tl, Cd and Cu adatoms on the oxidation of formaldehyde at Pd (Ritzoulis, Georgolios) 219

Viscostiy
Dual quartz crystal microbalance compensation using a submerged reference crystal. Effect of surface roughness and liquid properties (Bruckenstein et al.) 189
Voltammetric behaviour
Voltammetric behaviour of NO_3^- ions at platinized platinum electrodes (electrocatalytic activity of electrodes with (100) preferred orientation) (Bakos, Horányi) 309

X-ray photoelectron spectroscopy
On the characterization of sulfur species on sulfide mineral surfaces by X-ray photoelectron spectroscopy and Raman spectroscopy (Buckley, Woods) 295

Zinc + cobalt alloys
Electrodeposition of zinc + cobalt alloys. Relation between the electrochemical response and the composition and morphology of the deposits (Alcalá et al.) 73